

Notice of Allowability

Application No.

10/501,564

Applicant(s)

IKEDA ET AL.

Examiner

Art Unit

Dung Lam

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/16/07.
2. ☒ The allowed claim(s) is/are 1-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lawrence Ashery, Reg. No. 34515, on 8/3/07.

The application has been amended as follows:

Claim 1. A method of managing mobility of a mobile terminal on at least one domain network including a plurality of subnets, each subnet having at least one home agent apparatus, comprising:

determining a home agent for the mobile terminal to perform location management of the mobile terminal, wherein the mobile terminal has communications with an access point apparatus arranged on one of the plurality of subnets and moves between the plurality of subnets or between the at least one domain network which are different in service form;

registering a main home address by the mobile terminal provided from a main home agent apparatus to a server for managing an address of the mobile terminal to have a connection to the at least one domain network; and registering a sub-home address to the main home agent apparatus, as a care of address, for use on an other

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domain network different in service form, when the mobile terminal moves to the other domain network, wherein the sub-home address is registered as the care of address for use on the other domain network for a specified time period;

measuring, by the mobile terminal, a composite time corresponding to the mobile terminal being on the other subnet;

responsive to the mobile terminal moving to another subnet of the plurality of subnets for a threshold period, changing the main home agent apparatus to another one of the home agent apparatus;

wherein the step of changing the main home agent includes changing the mobile terminal to the other one of the home agent apparatus, corresponding to the other subnet, when the composite time reaches the threshold period.

Claim 20. A mobile terminal for use with at least one domain network including a plurality of subnets comprising:

a main home agent selecting section for selecting a main home agent apparatus to request location management and making a request for registering a home address provided from the main home agent apparatus to a server for managing an address of the mobile terminal to be connected to the at least one domain network;

a mobile IP processing section for notifying, when the mobile terminal has moved to a domain network different in service form, a sub-home agent apparatus for requesting location management on the other domain network different in service form of a home address for use on the other domain network different in service form

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together with a care of address for use on a subnet of the other domain network different in service form, based on a mobile IP protocol, wherein the sub-home address is registered as the care of address for use on the other domain network for a Specified time period;

a home agent registering section for notifying the main home agent apparatus of the main home address and a sub-home address for use on the other domain network different in service form,

wherein, responsive to the mobile terminal moving to another subnet of the plurality of subnets for a threshold period, the main home agent apparatus is changed to another one of the home agent apparatus; and

the mobile terminal measures a composite time corresponding to the mobile terminal being on the other subnet, and when the composite time reaches the threshold period, the mobile terminal changes to the other one of the home agent apparatus, corresponding to the other subnet.

Claim 36. Canceled.

[End of Examiner Amendment]

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Allowable Subject Matter

1. Claims 1-35 are allowed.

The following is the examiner's statement of reasons for allowance.

Regarding independent **claims 1 and 20**, the cited prior arts fail to teach or suggest the claimed limitations with the reasons set forth in the Applicant's Remarks filed on 7/16/07.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Lam whose telephone number is (571) 272-6497. The examiner can normally be reached on M - F 9 - 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (571) 272-7922. The fax phone number for the organization where this application or proceeding is assigned is (571) 272-64978300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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